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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,931	03/10/2004	In-joon Yeo	5649-1213	3285
75	90 11/16/2005		EXAMINER	
Scott C. Hatfield			LEE, EUGENE	
Myers Bigel Sib P.O. Box 37428	el Sibley & Sajovec, P.A. ART UNIT PAPER NUM 7428			PAPER NUMBER
Raleigh, NC 2	7627		2815	·
			DATE MAILED: 11/16/200:	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			An
	Application No.	Applicant(s)	- K
	10/796,931	YEO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Eugene Lee	2815	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period versions of the second period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO c, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>01 S</u>	eptember 2005.		
•	action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under E			is
Disposition of Claims			
4)⊠ Claim(s) <u>1-5,11-15,19,20,40-49 and 68-80</u> is/a	are pending in the applica	tion.	
4a) Of the above claim(s) <u>11-15,19,20,40-49 al</u>			
5) Claim(s) is/are allowed.			İ
6)⊠ Claim(s) <u>1-4 and 80</u> is/are rejected.			
7)⊠ Claim(s) <u>5</u> is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	epted or b) 🗌 objected to	by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO-152	•
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:		§ 119(a)-(d) or (f).	
 Certified copies of the priority document 			
2. Certified copies of the priority document			
3. Copies of the certified copies of the prior		n received in this National Stage	
application from the International Burea			
* See the attached detailed Office action for a list	or the certified copies no	n receivea.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		s Summary (PTO-413) o(s)/Mail Date	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	I	Informal Patent Application (PTO-152)	
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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species I (claims 1-5) in the reply filed on 9/1/05 is acknowledged. The traversal is on the ground(s) that the search and examination do not present a serious burden because the search and examination of the Independent claims has already been conducted, and all amendments have been to add recitations to claims. This is not found persuasive because the new limitations refer to new embodiments in the applicant's disclosure that would require new searches for each of the new embodiments. For example, claims 20, and 49 are new independent claims that would require a new search and examination, which has not already been conducted by the examiner.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 11-15, 19, 20, 40-49, and 68-79 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 9/1/05.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 1 thru 4, and 80 are rejected under 35 U.S.C. 102(e) as being anticipated by Agarwal et al. 6,667,502 B1. Agarwal discloses (see, for example, FIG. 3F) a capacitor container (integrated circuit device) comprising a substrate 31, polysilicon layer (first conductive electrode) 38, dielectric brace layer (insulating spacer) 390, capacitor dielectric film (capacitor dielectric layer) 392, and top electrode (second conductive electrode) 393. A thickness of the insulating spacer between the polysilicon layer and top electrode is greater than a thickness of the capacitor dielectric film between the polysilicon layer and top electrode.

Regarding claim 2, see, for example, column 7, lines 8-10, and column 5, lines 46-49 wherein Agarwal discloses the capacitor dielectric may be BST, PZT, SBT, etc., and the dielectric brace layer may be BPSG.

Regarding claims 3, see, for example, FIG. 3F wherein Agarwal discloses a circuit element (transistor) 32, first dielectric layer (insulating layer) 34, conductive plug 35, and source 33.

Regarding claim 4, see, for example, column 5, lines 59-61 wherein Agarwal discloses the brace layer may be suspended within 50% (portions of the electrode wall extend beyond the spacer) of the cylinder height.

Regarding claim 80, see, for example, FIG. 3F wherein Agarwal discloses the capacitor dielectric film 392 on top of the polysilicon layer 38 most distant from the substrate that are free of the dielectric brace layer 390.

Allowable Subject Matter

5. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter:

The references of record, either singularly or in combination, do not teach or suggest at least the electrode wall including a recessed portion and wherein the insulating spacer is on the recessed portion of the electrode wall.

Response to Arguments

7. Applicant's arguments with respect to claims 1-5, and 80 are have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 571-272-1733. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eugene Lee October 27, 2005

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